National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक:9th Sep 2021

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
   Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 08.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-सितंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 8th September 2021, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **09-Sep-2021**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	61685	48356	40956	23170	3021	177188
Peak Shortage (MW)	345	0	0	108	1	454
Energy Met (MU)	1362	1117	883	496	57	3914
Hydro Gen (MU)	316	28	118	145	32	639
Wind Gen (MU)	12	109	203	-	-	324
Solar Gen (MU)*	57.08	28.52	90.03	4.68	0.24	181
Energy Shortage (MU)	4.02	0.00	0.00	1.21	0.00	5.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61986	48888	41261	23515	3078	177210
Time Of Maximum Demand Met (From NLDC SCADA)	20:40	19:11	12:12	22:52	19:30	19:16

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.031	0.00	0.76	5.37	6.13	82.47	11.40

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	11384	0	255.8	155.0	-1.1	133	0.00
	Haryana	8604	0	183.4	140.2	-0.2	147	0.00
	Rajasthan	11713	0	264.5	122.8	0.9	267	0.00
	Delhi	5198	0	109.1	99.1	-1.6	103	0.00
	UP	21958	0	423.4	186.8	-0.6	348	0.33
	Uttarakhand	1931	0	43.7	15.7	0.5	132	0.24
	HP	1501	0	32.5	-2.4	-0.8	34	0.00
	J&K(UT) & Ladakh(UT)	2305	200	43.3	20.4	-0.7	300	3.45
	Chandigarh	312	0	6.4	6.5	-0.1	25	0.00
WR	Chhattisgarh	4270	0	97.1	45.7	1.2	345	0.00
	Gujarat	14441	0	319.1	189.1	0.5	732	0.00
	MP	9970	0	223.0	143.9	2.1	759	0.00
	Maharashtra	19600	0	418.9	134.5	-5.2	664	0.00
	Goa	559	0	11.7	10.8	0.2	38	0.00
	DD	336	0	7.6	7.0	0.6	44	0.00
	DNH	853	0	19.9	19.4	0.5	60	0.00
	AMNSIL	864	0	19.2	4.1	-0.3	196	0.00
SR	Andhra Pradesh	8173	0	176.9	52.6	1.2	784	0.00
	Telangana	7223	0	150.1	26.1	-1.5	740	0.00
	Karnataka	8470	0	163.7	9.4	-1.8	888	0.00
	Kerala	3463	0	71.5	46.0	-0.5	251	0.00
	Tamil Nadu	14964	0	312.0	141.0	-0.6	696	0.00
	Puducherry	410	0	8.5	8.6	-0.2	39	0.00
ER	Bihar	6273	0	118.1	112.5	-0.3	406	0.72
	DVC	3040	0	66.2	-46.2	-0.3	240	0.00
	Jharkhand	1535	0	29.0	24.1	-2.5	161	0.49
	Odisha	5784	0	117.6	37.8	-0.1	340	0.00
	West Bengal	8382	0	163.2	42.5	-0.8	397	0.00
	Sikkim	93	0	1.5	1.5	0.1	30	0.00
NER	Arunachal Pradesh	115	0	2.2	2.3	-0.3	33	0.00
	Assam	2026	0	37.1	31.7	0.7	171	0.00
	Manipur	199	0	2.7	2.7	0.0	14	0.00
	Meghalaya	300	0	5.6	2.7	-0.3	59	0.00
	Mizoram	100	0	1.5	1.2	-0.1	13	0.00
	Nagaland	137	0	2.4	2.1	-0.2	11	0.00
	Tripura	287	1	5.3	5.6	0.1	94	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.3	0.4	-20.6
Day Peak (MW)	2239.0	15.4	-878.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	338.5	-107.2	-64.0	-159.0	-8.4	0.0
Actual(MU)	325.3	-104.9	-61.9	-155.9	-9.6	-7.0
O/D/U/D(MU)	-13.3	2.2	2.1	3.1	-1.2	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5319	17110	8722	1915	409	33474	42
State Sector	9690	21466	11018	3815	68	46056	58
Total	15009	38575	19740	5730	476	79530	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	571	996	396	529	12	2504	63
Lignite	26	9	45	0	0	80	2
Hydro	316	28	118	145	32	639	16
Nuclear	26	30	65	0	0	121	3
Gas, Naptha & Diesel	28	35	11	0	27	101	3
RES (Wind, Solar, Biomass & Others)	86	138	324	5	0	553	14
Total	1053	1235	959	680	72	3998	100

Share of RES in total generation (%)	8.18	11.15	33.84	0.70	0.33	13.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.64	15.85	52.92	22.10	45.40	32.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.054

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 09-Sep-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	1401	0.0	26.1	-26.1
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	31	551	0.0	6.1	-6.1
4	765 kV	SASARAM-FATEHPUR	1	18	280	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	664	0.0	11.3	-11.3
6	400 kV	PUSAULI-VARANASI	1	0	155	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	792	0.0	15.1	-15.1
9	400 kV	PATNA-BALIA	4	0	1083	0.0	19.8	-19.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	376	0.0	6.3	-6.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	7.9	-7.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	265	0.0	3.2	-3.2
13	220 kV	PUSAULI-SAHUPURI	1	10	102	0.0	1.3	-1.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	48	0.0	0.1	-0.1
					ER-NR	0.4	112.1	-111.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1404	0.0	19.8	-19.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	903	69	13.9	0.0	13.9
3	765 kV	JHARSUGUDA-DURG	2	0	297	0.0	4.6	-4.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	518	0.0	8.2	-8.2
5	400 kV	RANCHI-SIPAT	2	168	93	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	156	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	7	78	0.0	0.8	-0.8
					ER-WR	15.7	36.4	-20.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	296	0	7.4	0.0	7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1339	0.0	31.0	-31.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2149	0.0	39.7	-39.7
4	400 kV	TALCHER-I/C	2	878	0	12.6	0.0	12.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	7.4	70.7	-63.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	101	308	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	187	410	0.0	2.7	-2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	133	0.0	1.8	-1.8
					ER-NER	0.0	8.0	-8.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	804	0.0	19.3	-19.3
					NER-NR	0.0	19.3	-19.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3020	0.0	43.8	-43.8
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	3.7	-3.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	298	0.0	6.9	-6.9
4	765 kV	GWALIOR-AGRA	2	0	1880	0.0	34.6	-34.6
5	765 kV	GWALIOR-PHAGI	2	0	2298	0.0	44.4	-44.4
6	765 kV	JABALPUR-ORAI	2	0	1105	0.0	43.1	-43.1
7	765 kV	GWALIOR-ORAI	1	873	0	15.9	0.0	15.9
8	765 kV	SATNA-ORAI	1	0	994	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	850	0	13.2	0.0	13.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3049	0.0	53.2	-53.2
11	400 kV	ZERDA-KANKROLI	1	207	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	330	37	3.4	0.0	3.4
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	591	0.0	8.3	-8.3
15	220 kV	BHANPURA-RANPUR	1	0	132	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	122	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	80	0	1.2	0.0	1.2
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	59.7	263.7	-203.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	20.4	0.0	20.4
2	HVDC	RAIGARH-PUGALUR	2	2148	0	30.3	0.0	30.3
3	765 kV	SOLAPUR-RAICHUR	2	1715	740	12.9	0.0	12.9
4	765 kV	WARDHA-NIZAMABAD	2	368	1349	0.6	9.5	-8.9
5	400 kV	KOLHAPUR-KUDGI	2	1397	0	22.8	0.0	22.8
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	85	1.5	0.0	1.5
					WR-SR	88.5	9.5	79.1

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	830	0	783	18.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1038	1019	1030	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	287	0	257	6.2
	NER	132kV GELEPHU-SALAKATI	32	23	28	0.7
	NER	132kV MOTANGA-RANGIA	52	27	40	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-50	0	-18	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	75	2	40	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-728	-729	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-128	-3.1